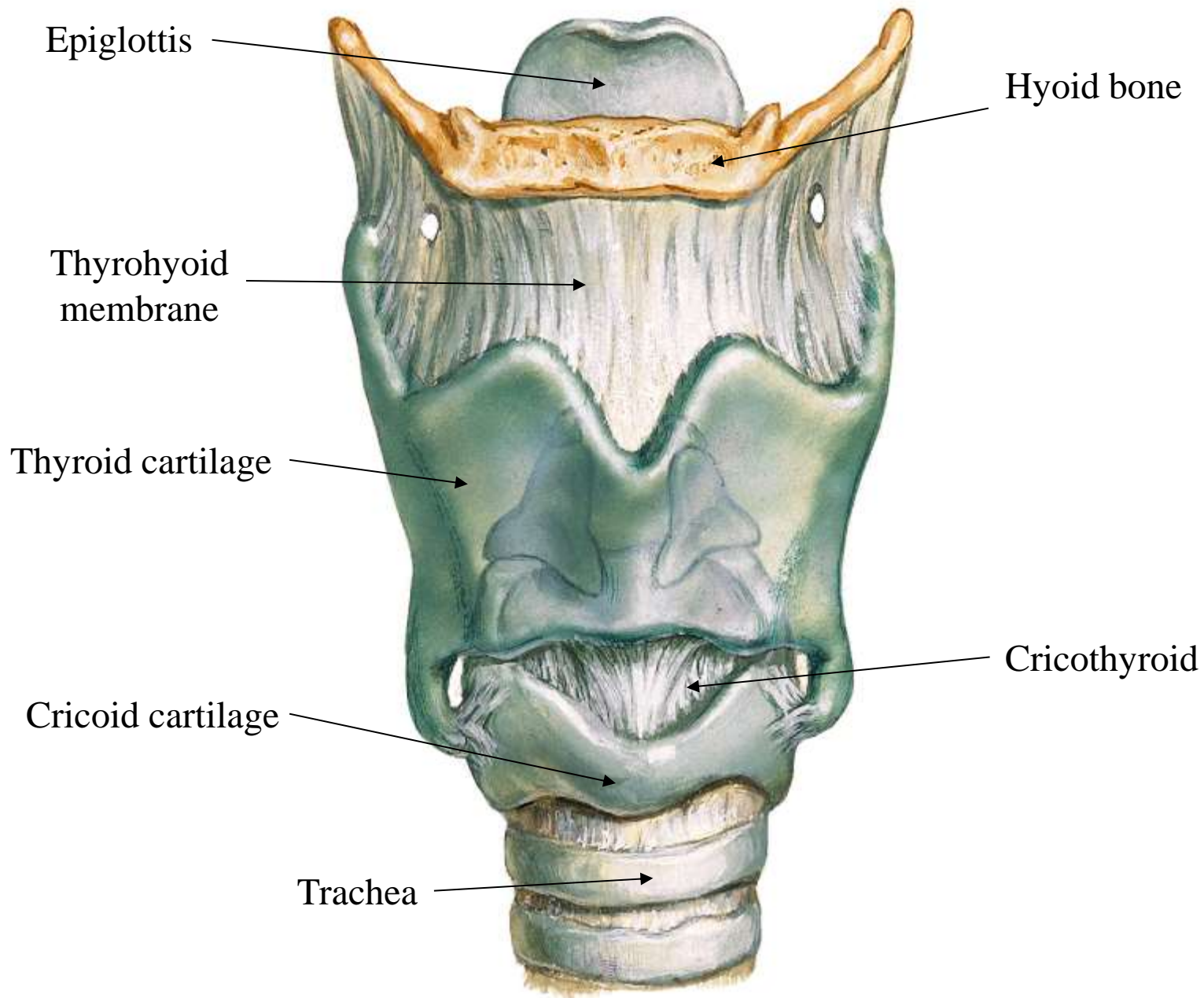




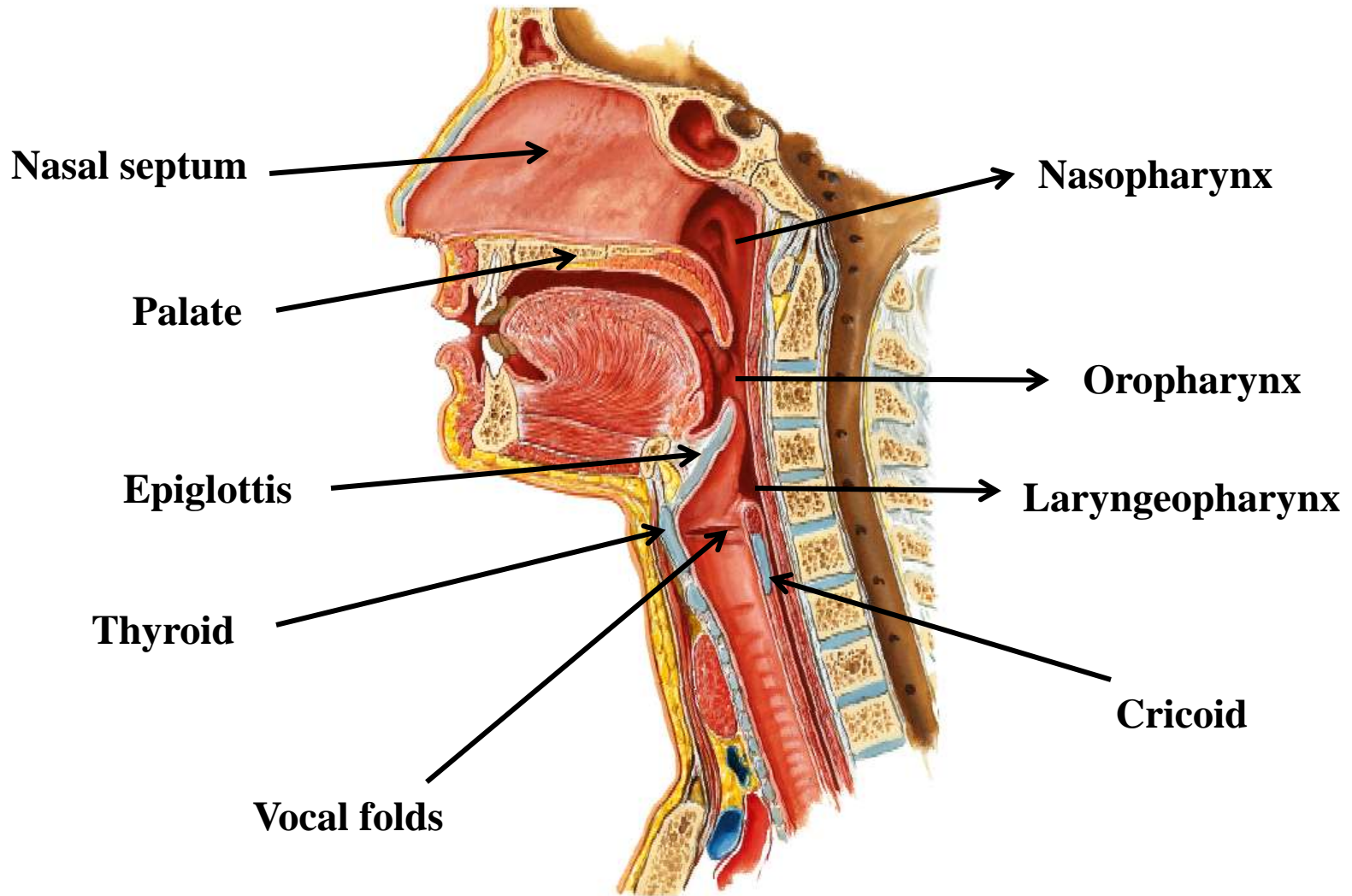
Respiratory System

Practical Study Guide

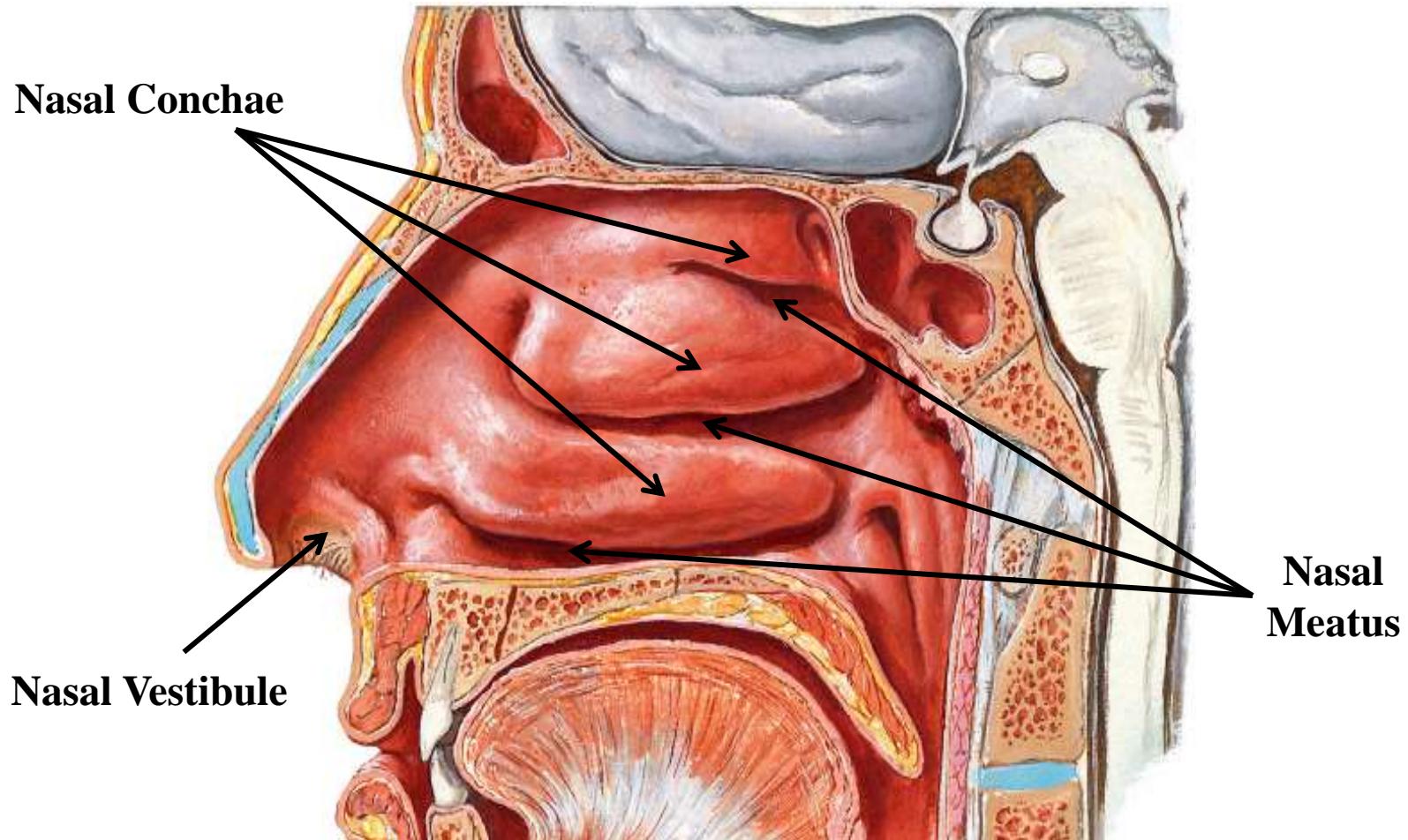
Anatomy Department



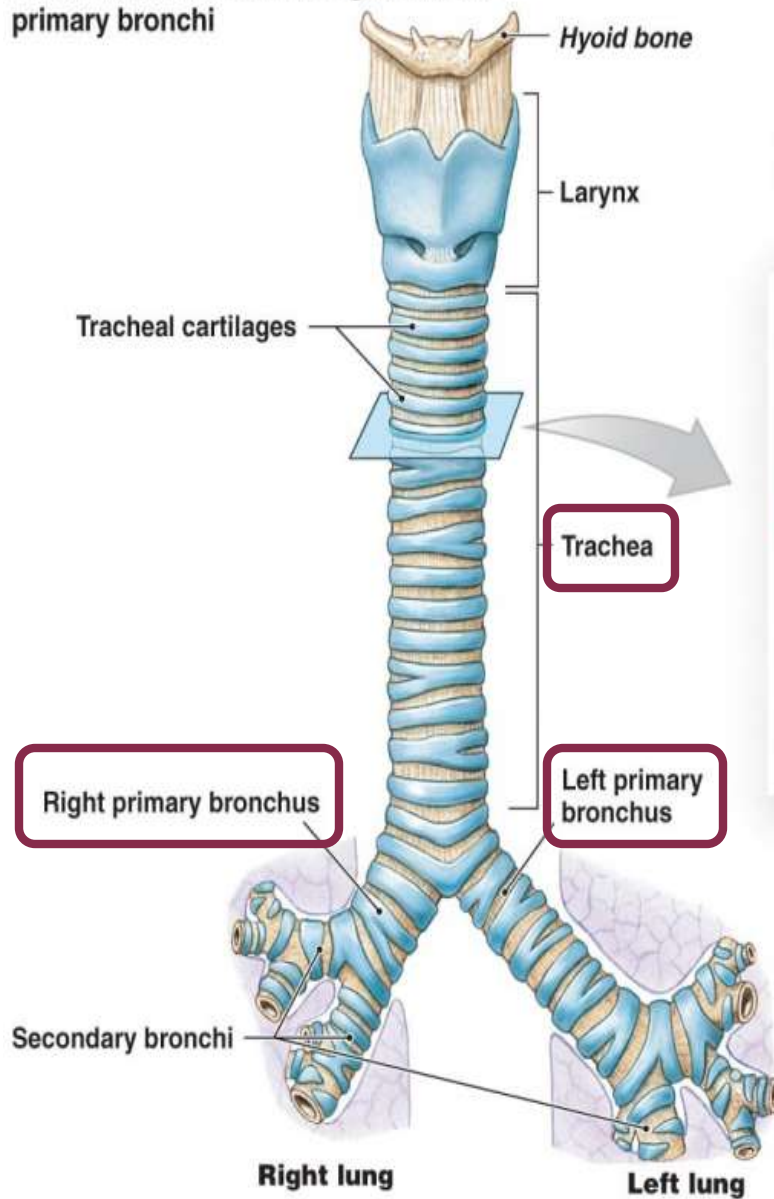
Sagittal Cut of H&N



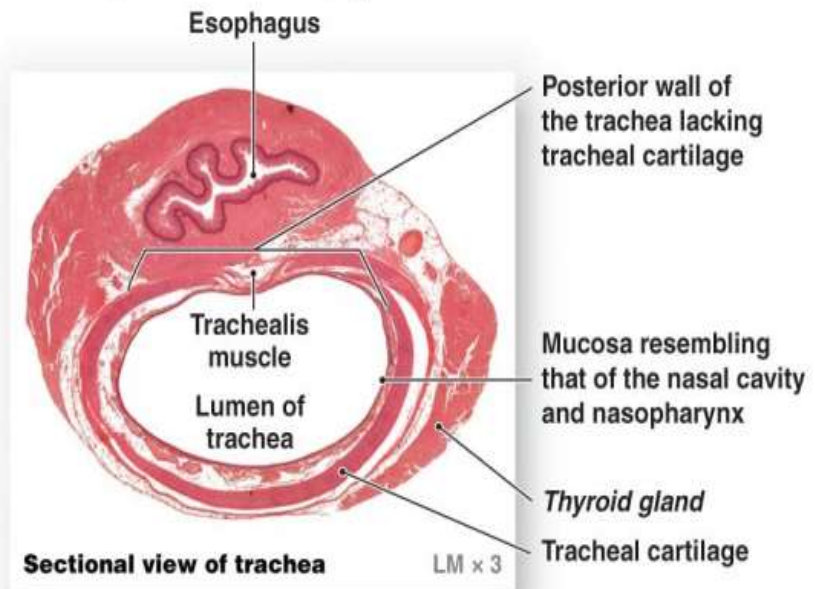
Interior of the Nose

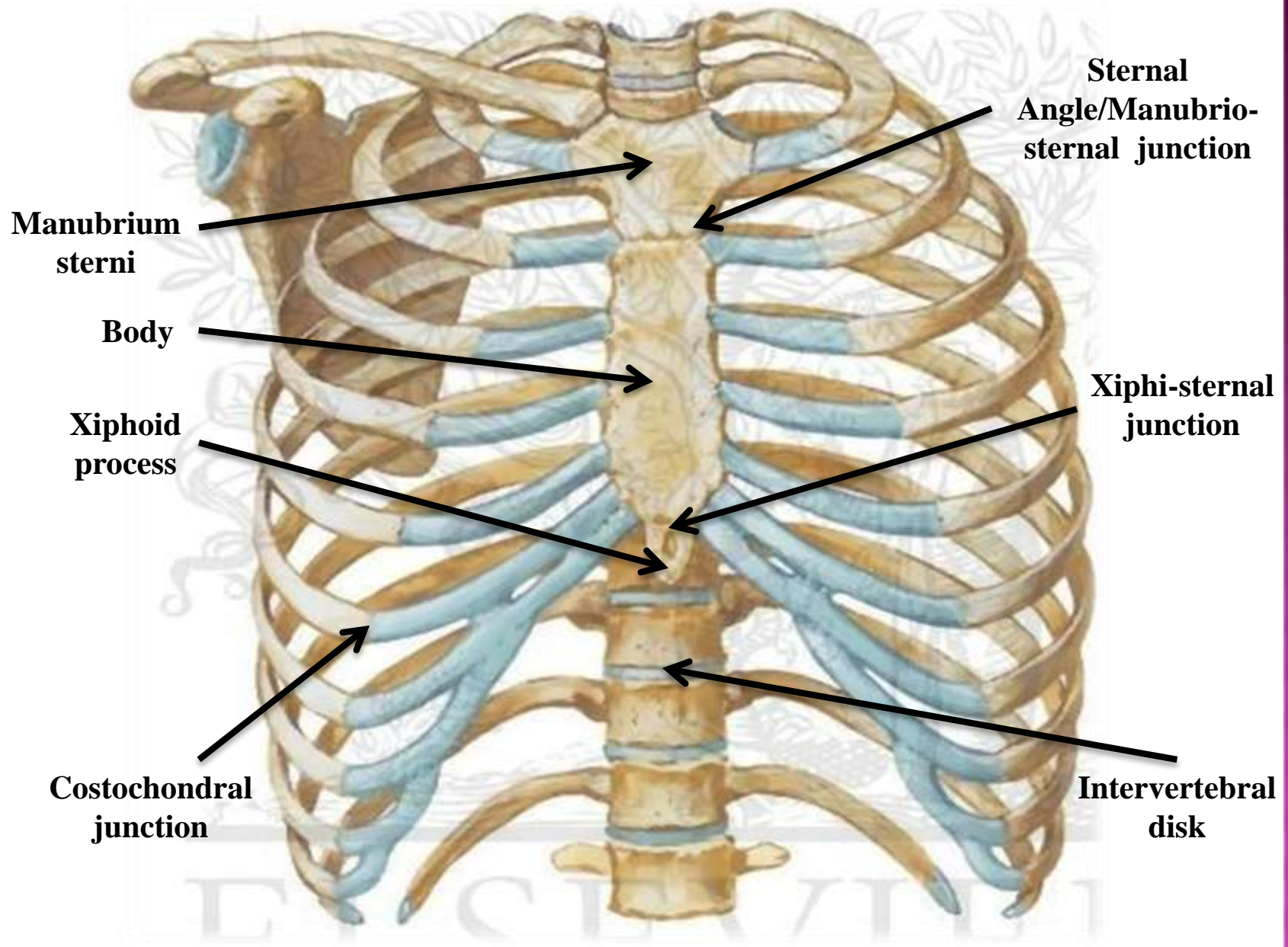


The branching of the trachea within the mediastinum to form the right and left primary bronchi



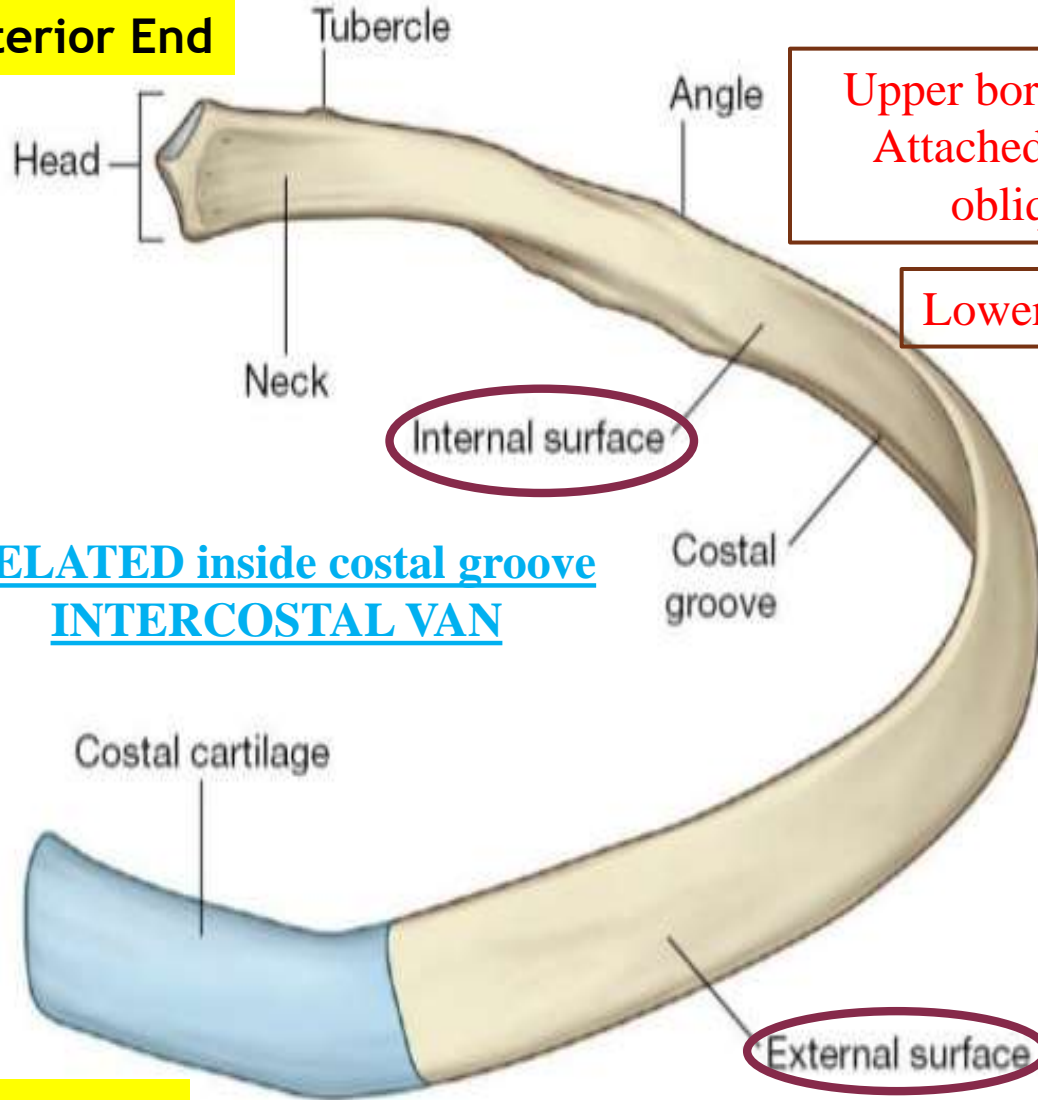
A sectional view of the trachea showing a C-shaped tracheal cartilage





Anatomy of a Typical Rib

Posterior End



Upper border rounded
Attached to it the 3
oblique ms

Lower border sharp

RELATED inside costal groove
INTERCOSTAL VAN

Shaft

Anterior End

1st Rib

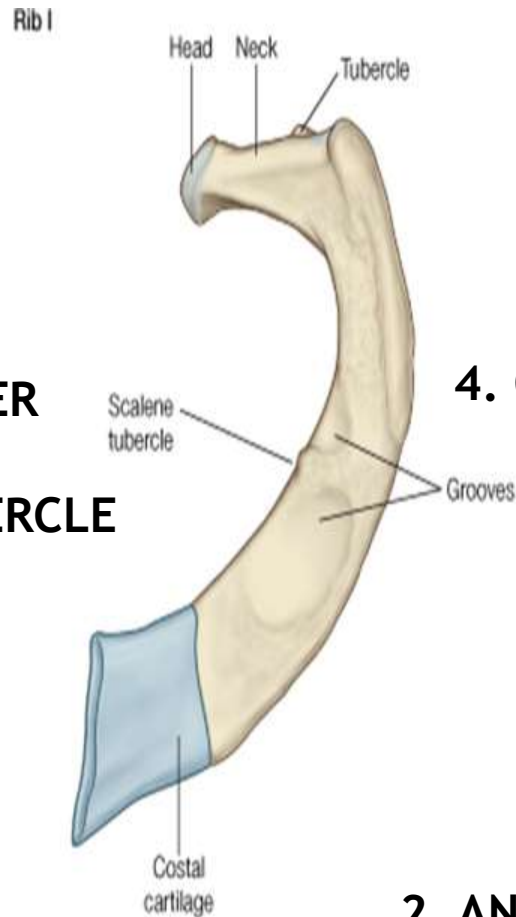
1. POSTERIOR

3. INNER BORDER
SHARP
HAS SCALENE TUBERCLE

4. OUTER BORDER
ROUNDED

2. ANTERIOR

5. UPPER SURFACE ROUGH
LOWER SURFACE SMOOTH



2nd Rib

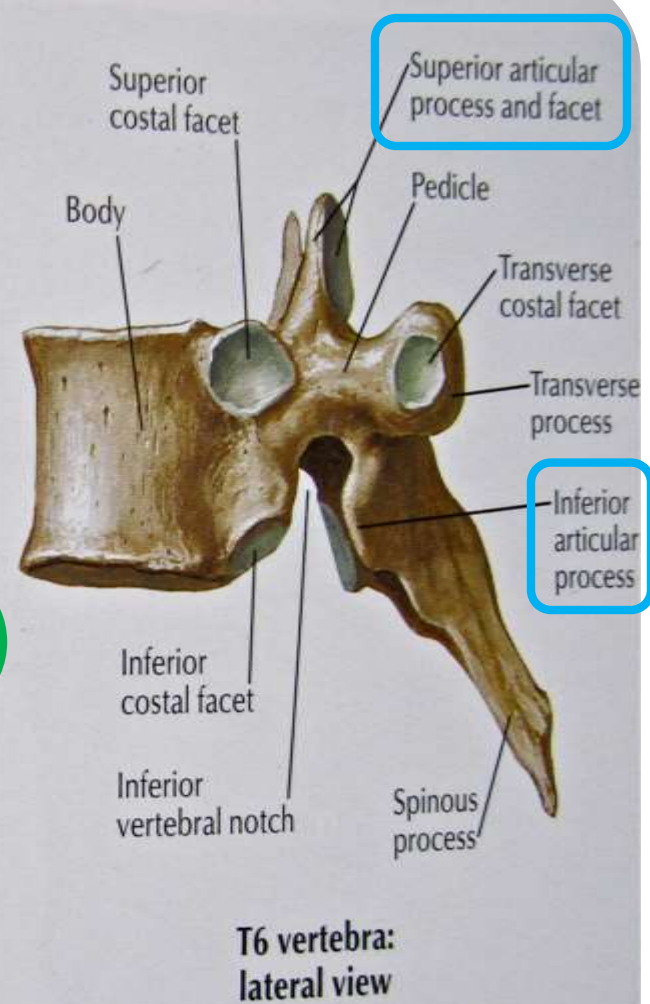
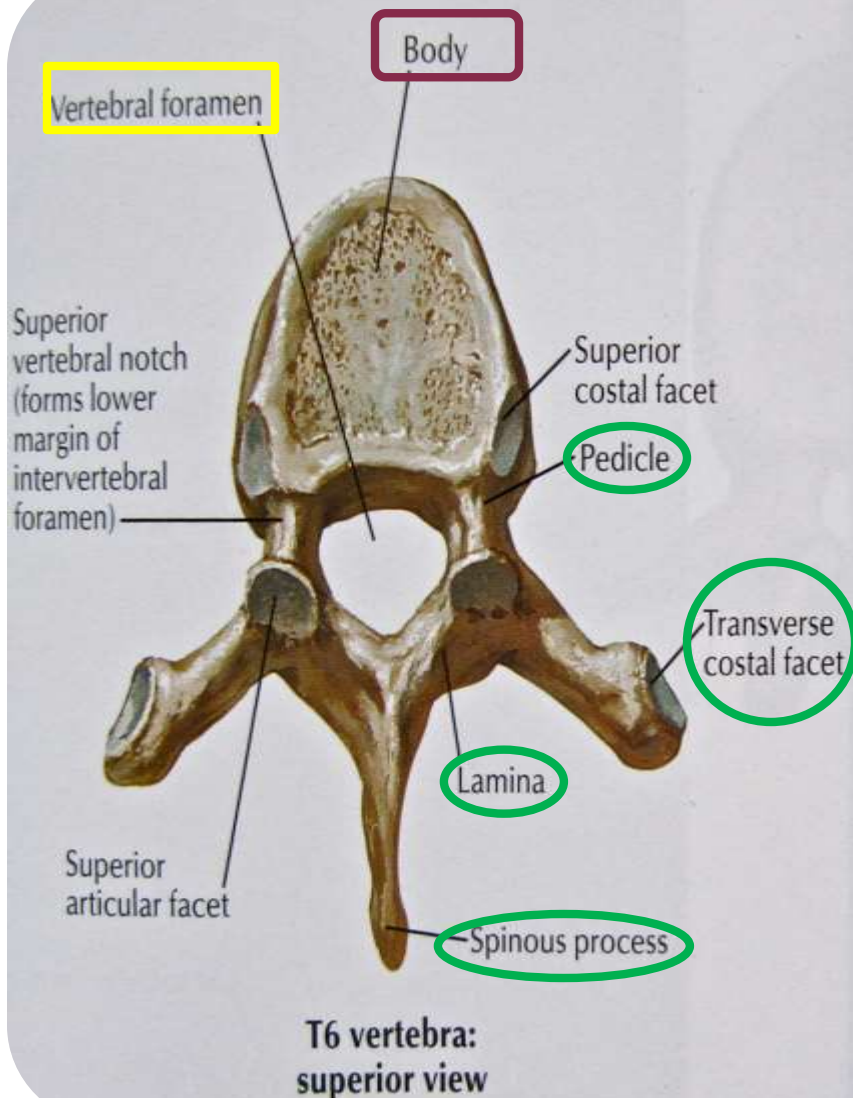


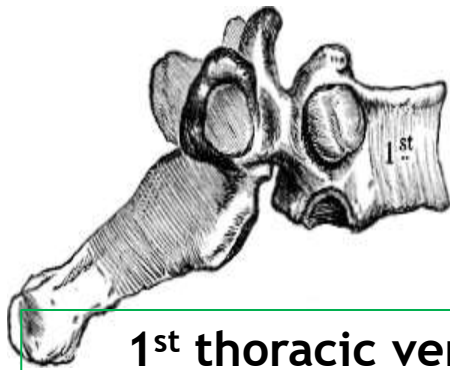
Longer than 1st rib and shorter than typical rib. Both anterior and posterior ends are at the same horizontal plane

FLOATING RIBS

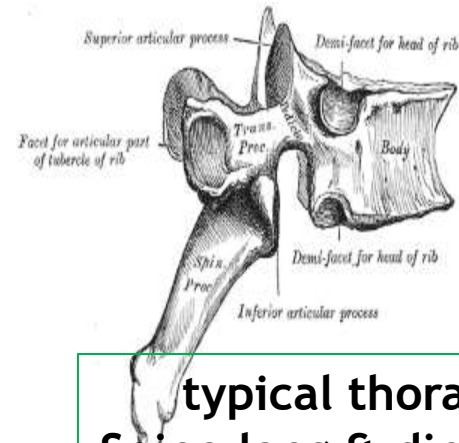


Thoracic vertebrae



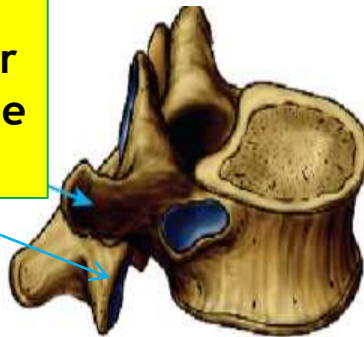


1st thoracic vert
Spine long & horizontal

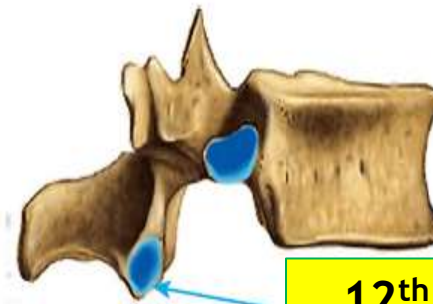


typical thoracic vert
Spine long & directed down

11th thoracic vert
Inferior articular facet looks to the body



11 & 12 thoracic vert
Spine short & horizontal



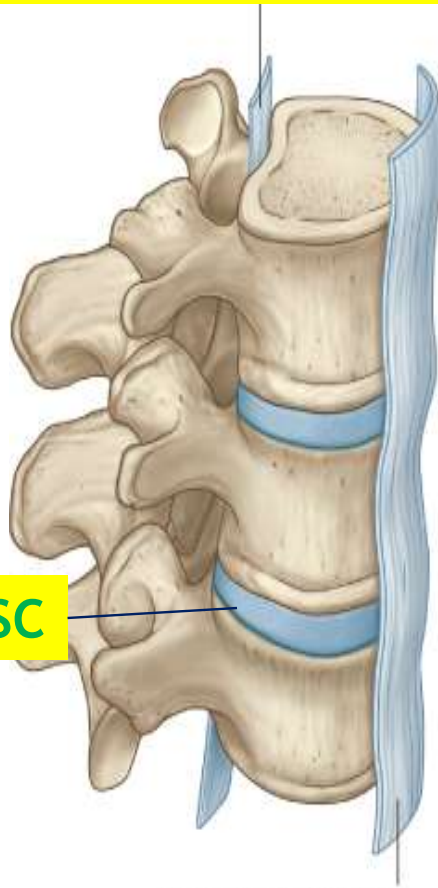
12th thoracic vert
Inferior articular facet looks to the side

Eleventh and twelfth thoracic vert

POSTERIOR LONGITUDINAL LIGAMENT

INTERVERTEBRAL DISC

ANTERIOR LONGITUDINAL LIGAMENT

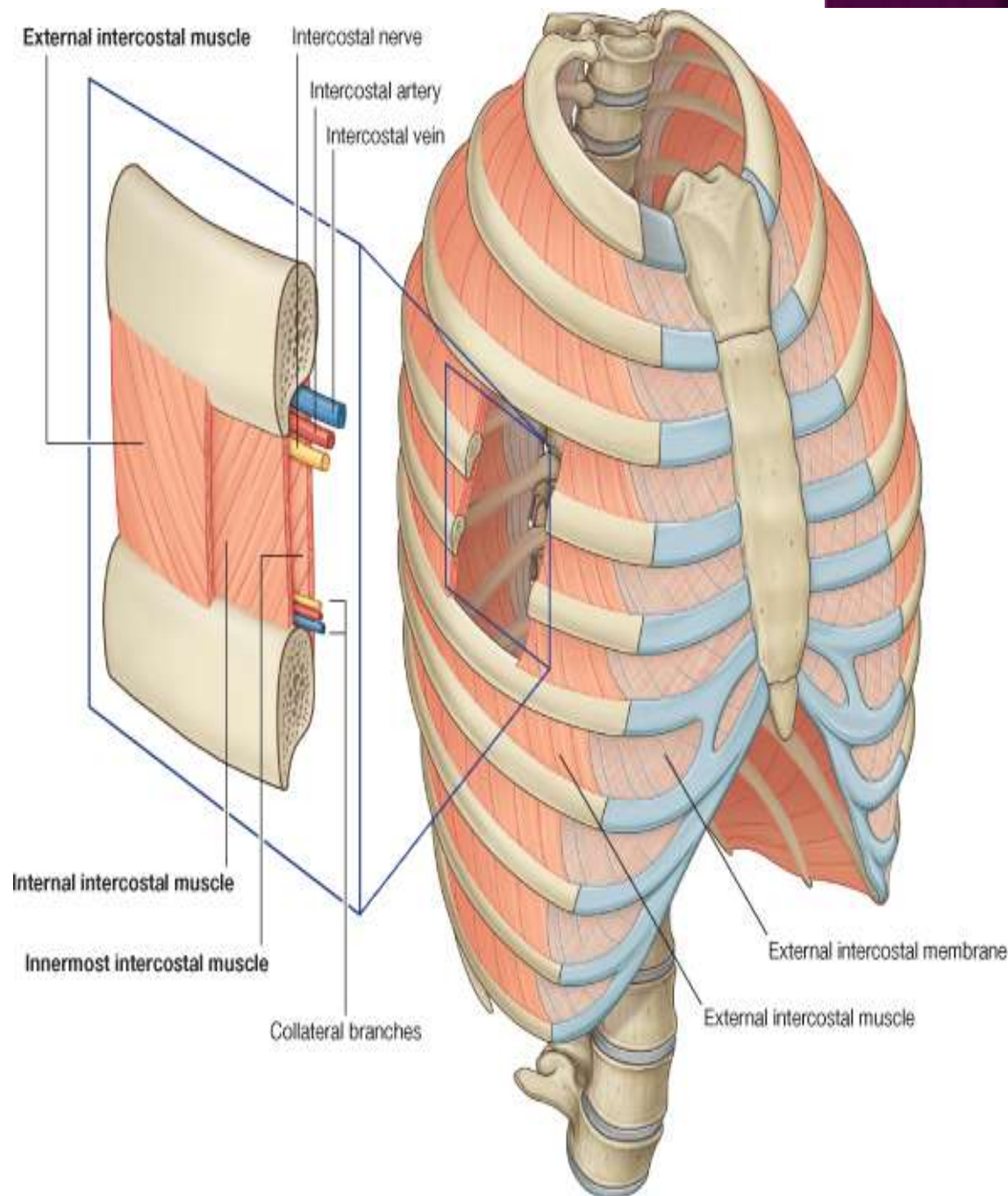


Muscles of thoracic wall:

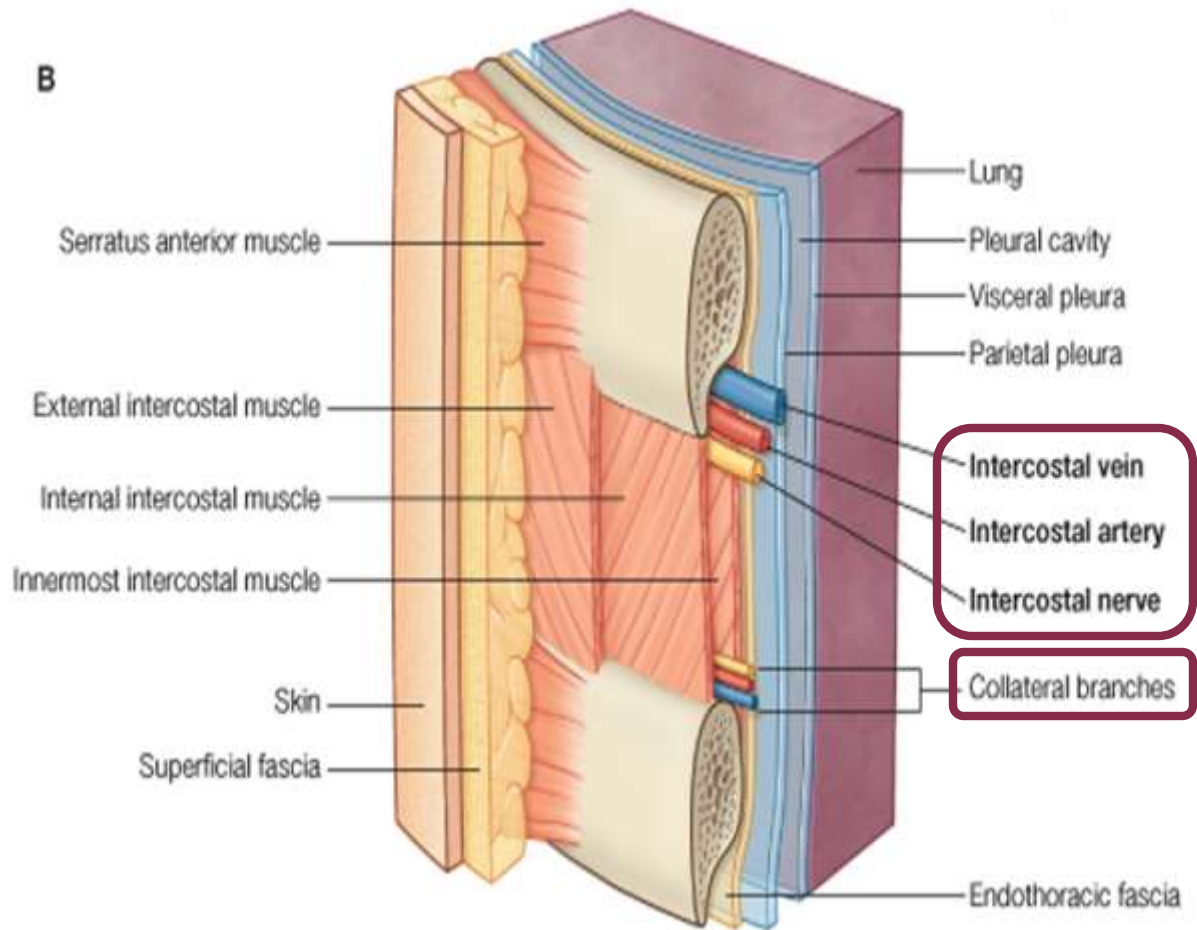
External intercostal

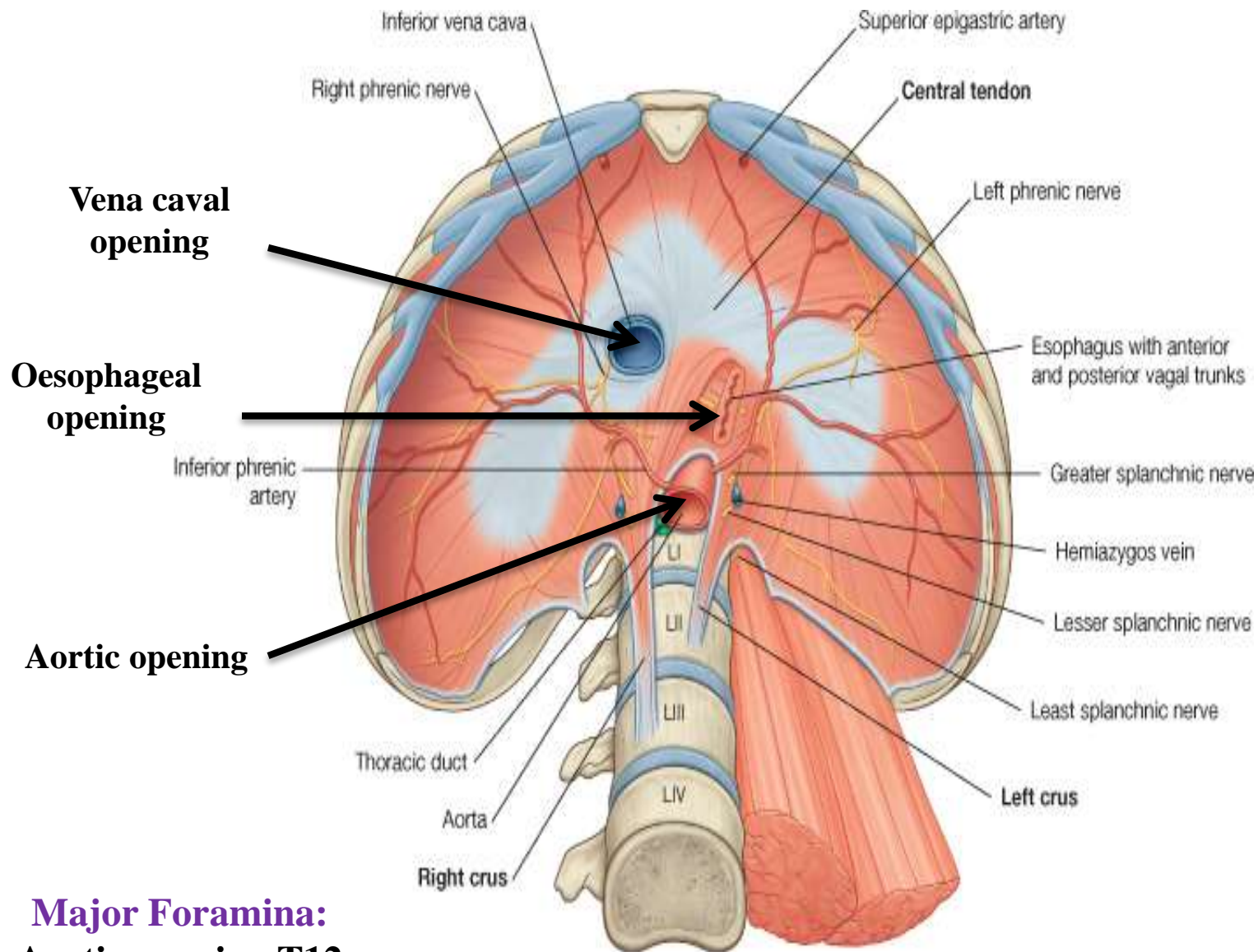
Internal intercostal

Innermost intercostal



B



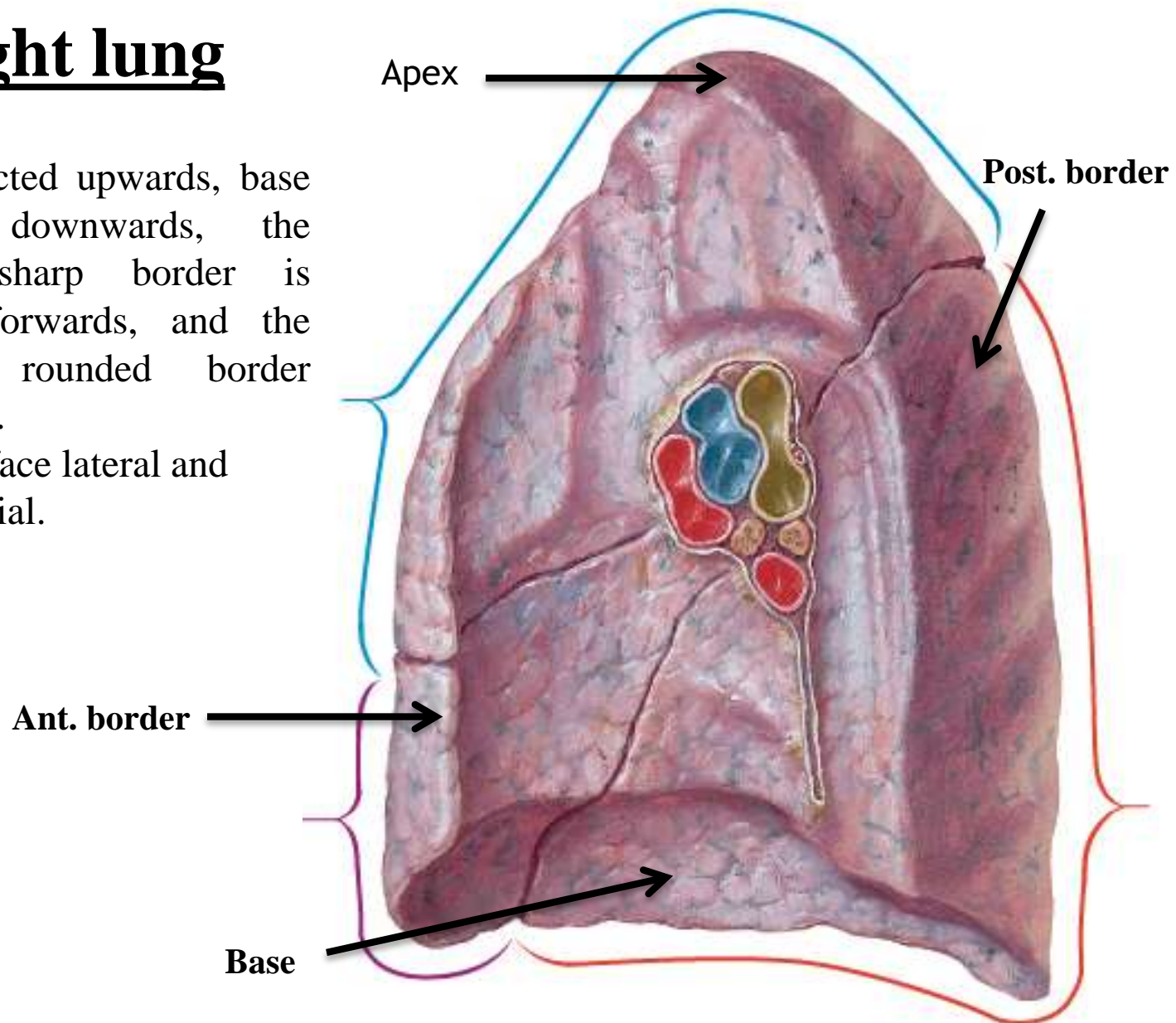


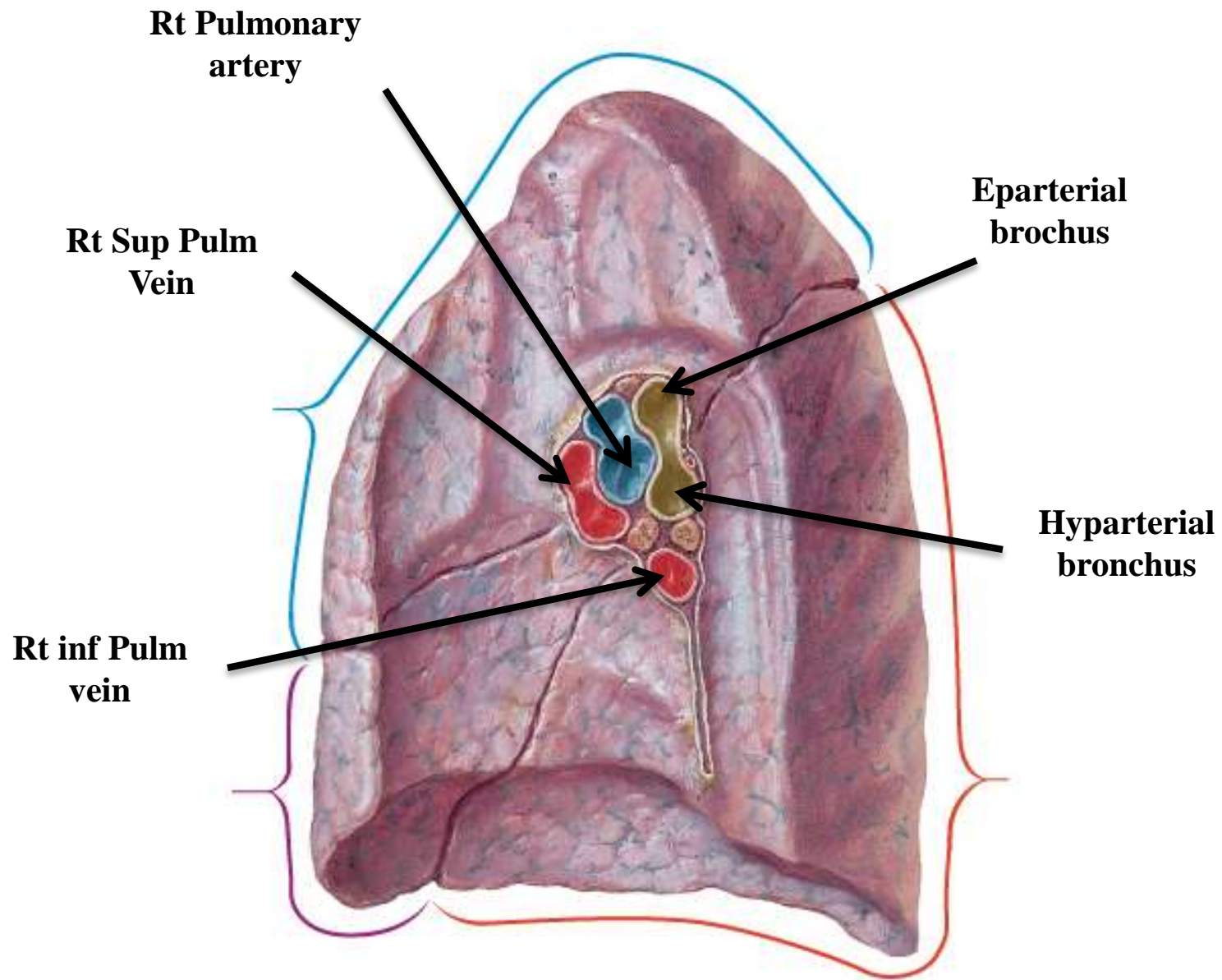
Major Foramina:
Aortic opening T12
Oesophageal opening T10
Vena caval opening T8

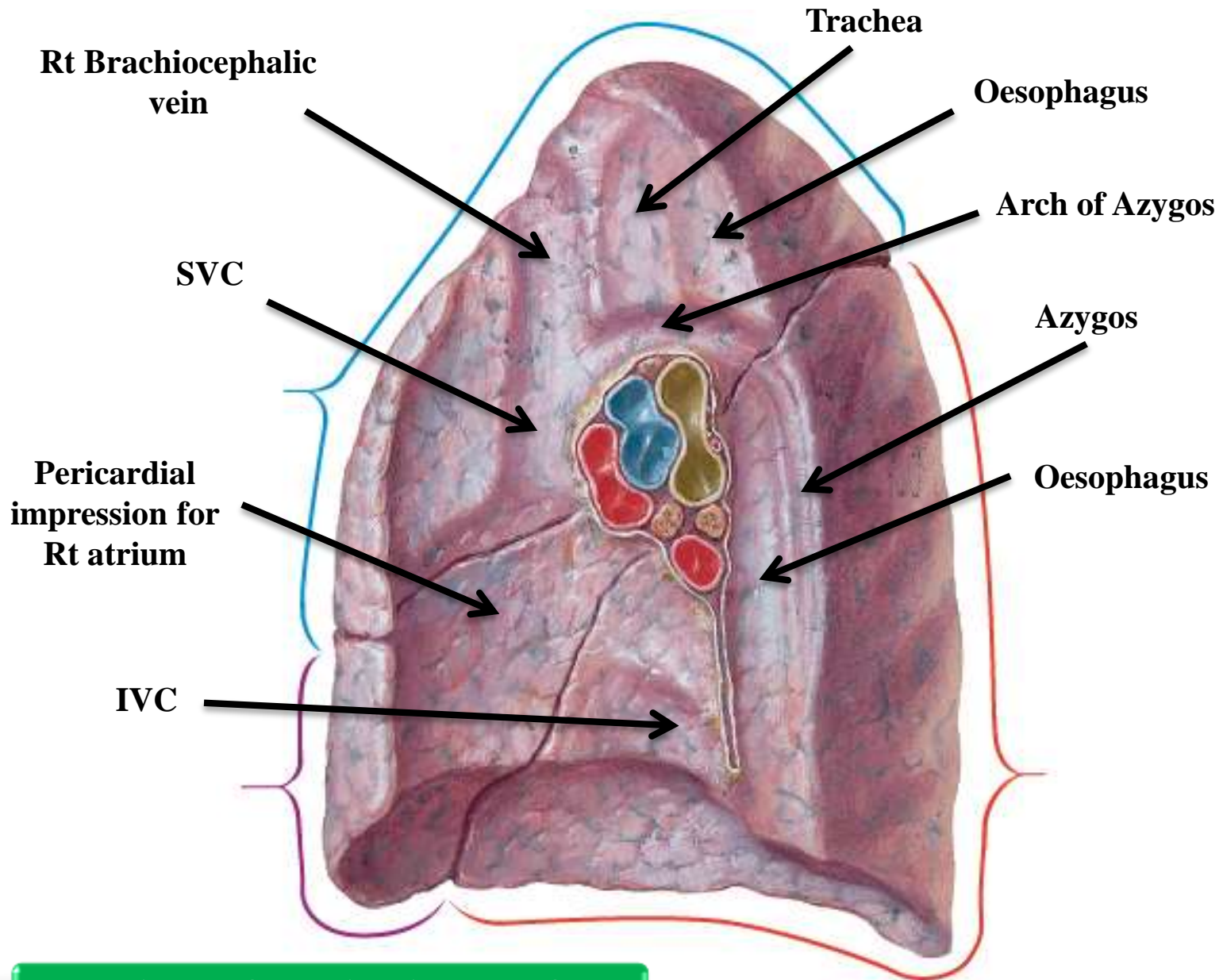
Right lung

Apex directed upwards, base directed downwards, the anterior sharp border is directed forwards, and the posterior rounded border backwards.

Costal surface lateral and hilum medial.

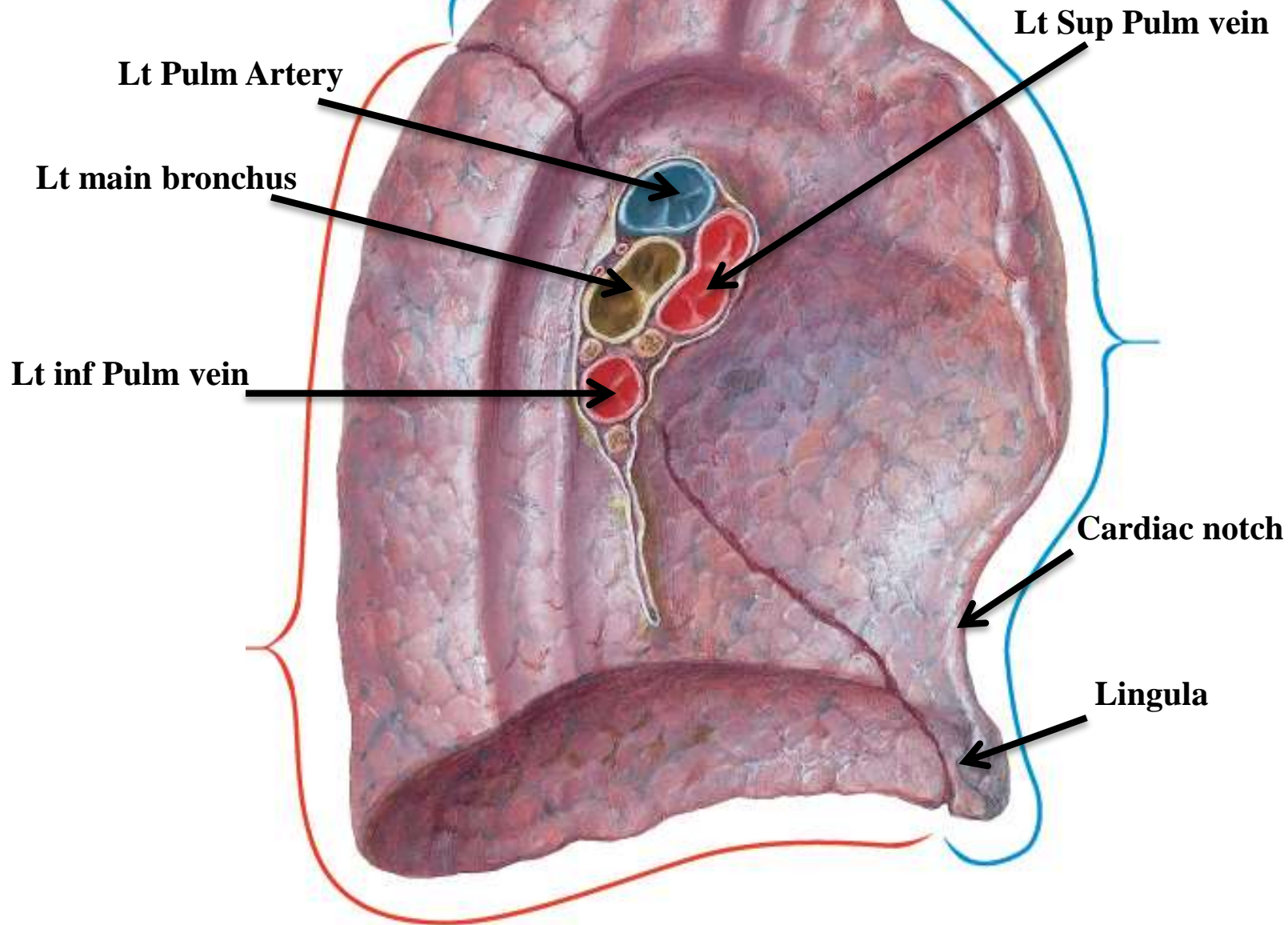


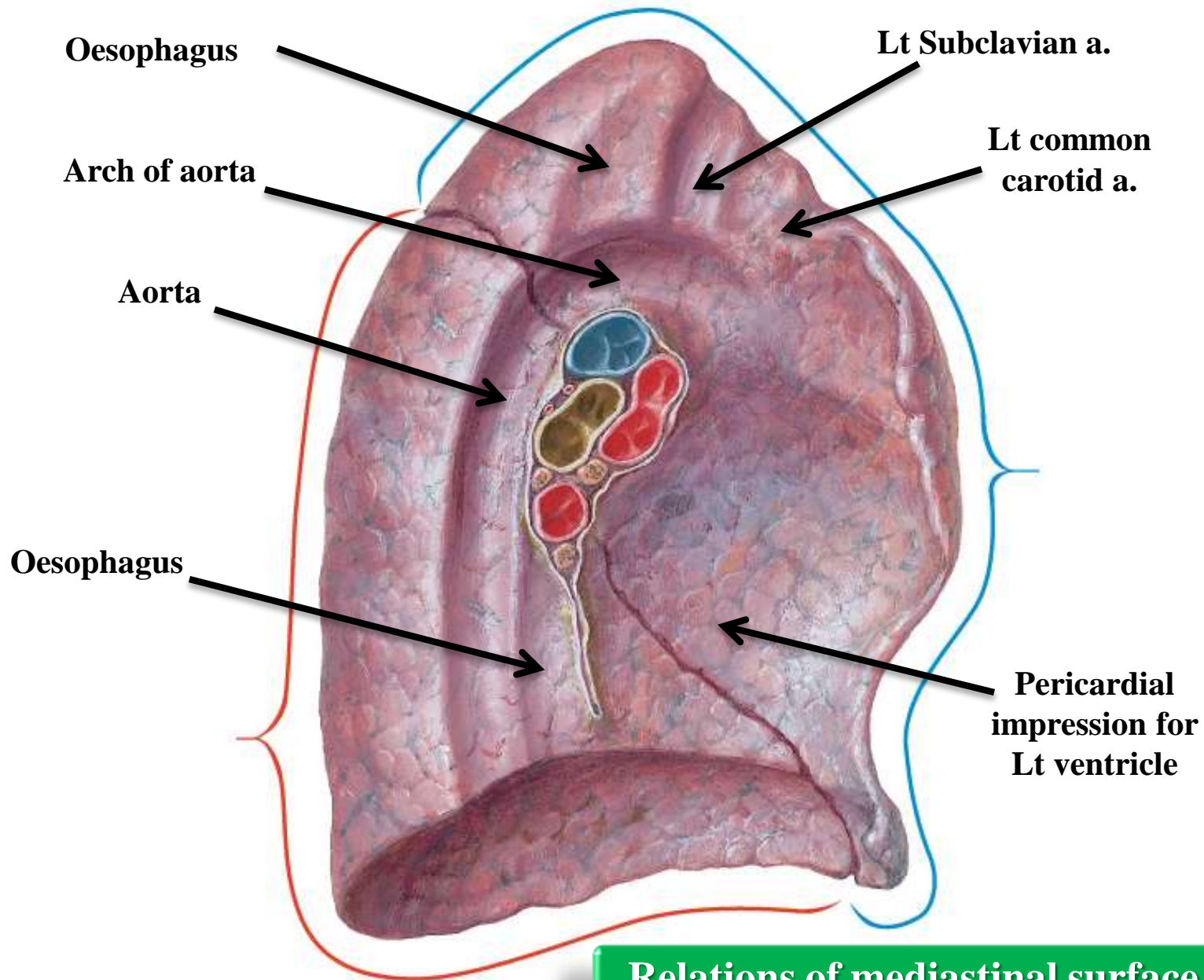




Relations of mediastinal surface

Left lung

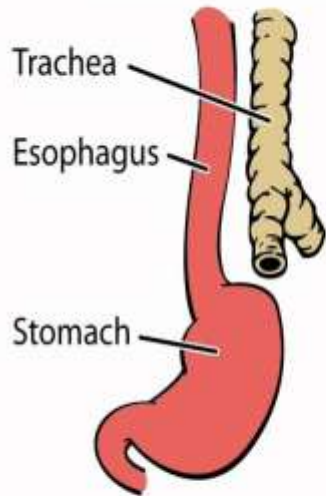




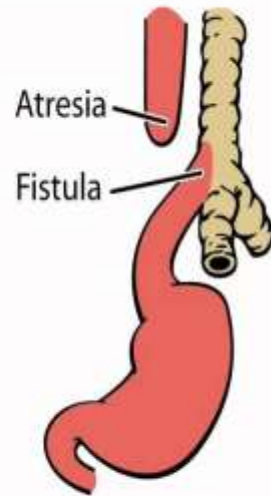
Relations of mediastinal surface

Tracheoesophageal fistula

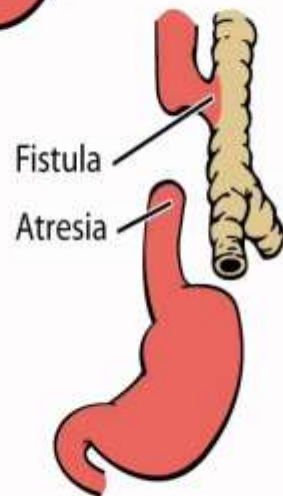
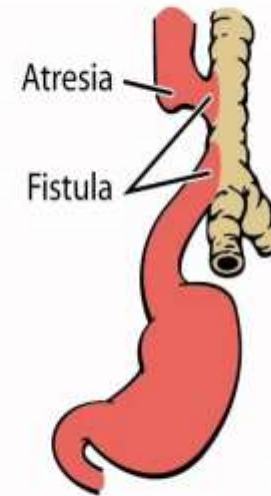
Normal Anatomy



Atresia with distal Fistula



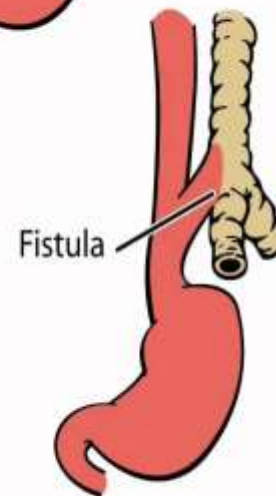
Atresia with double Fistula



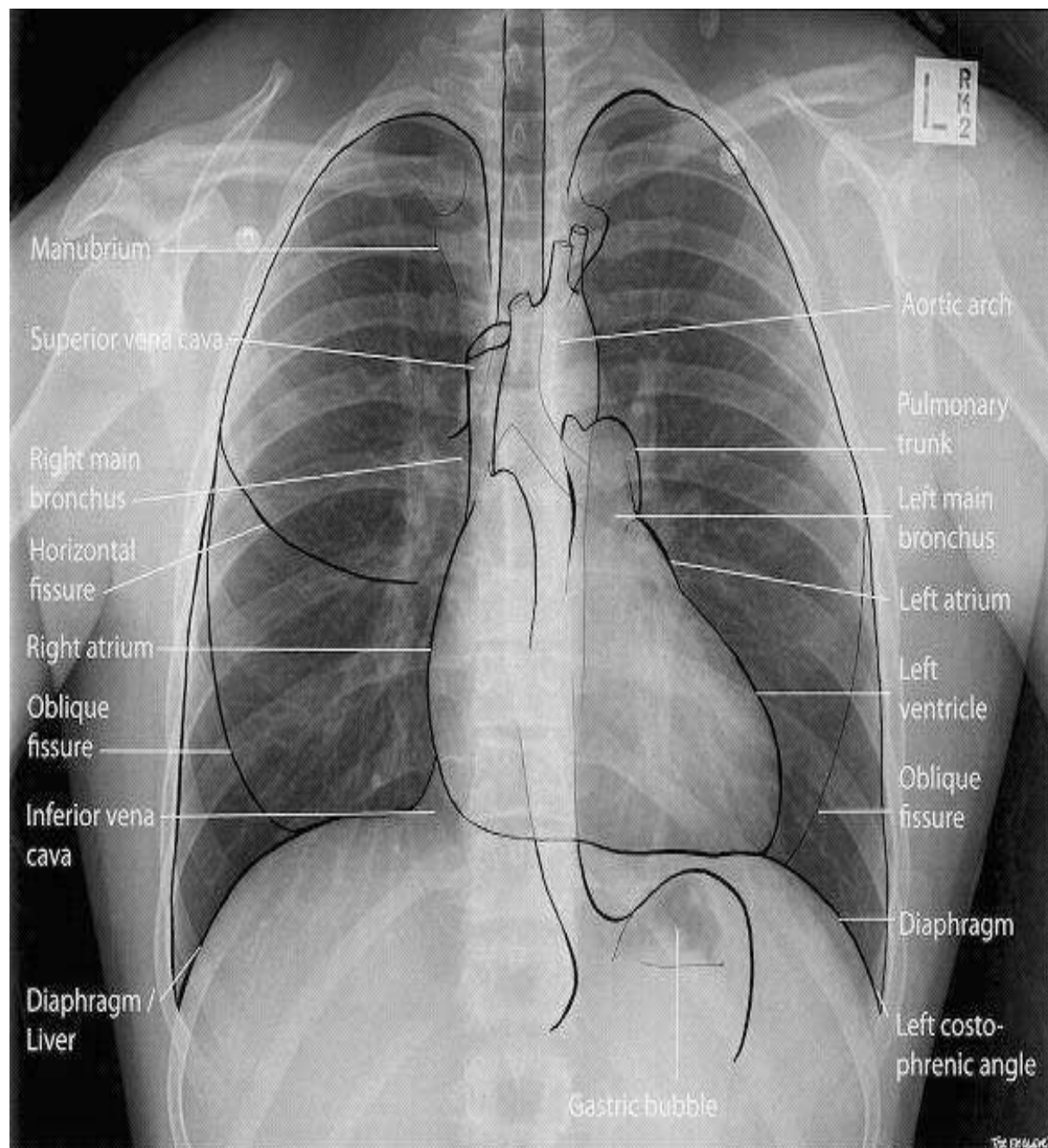
Atresia with proximal Fistula



Atresia

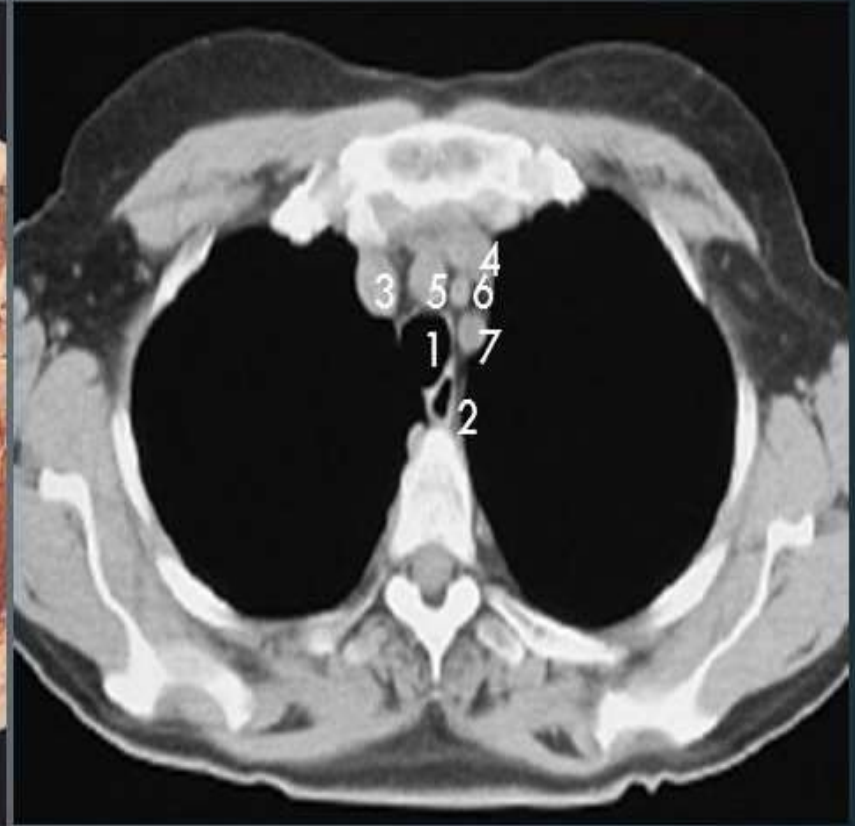


Fistula



Cross sectional Anatomy on CT

T3 level



1-trachea

4-left brachiocephalic vein

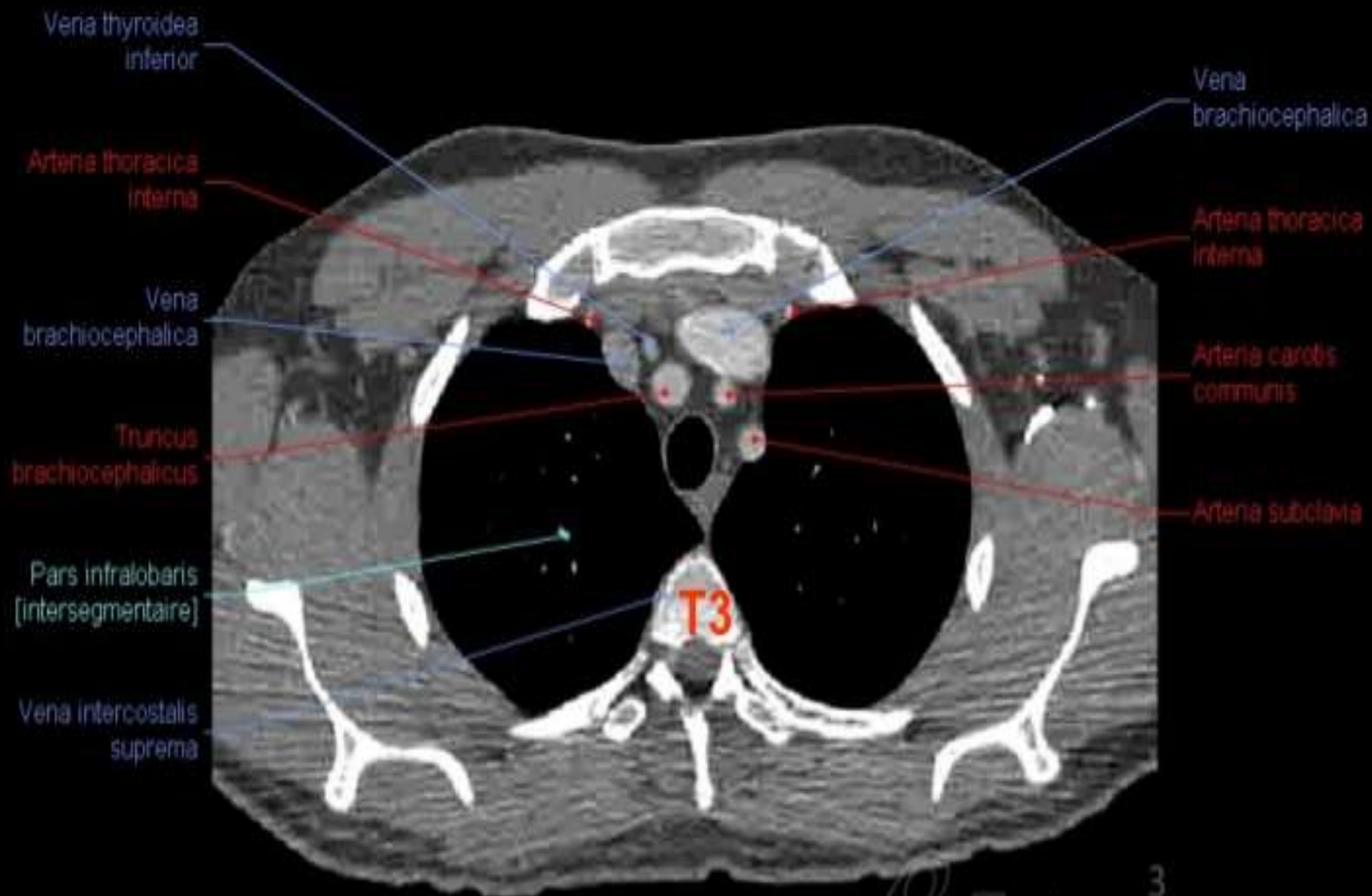
6-left common carotid artery

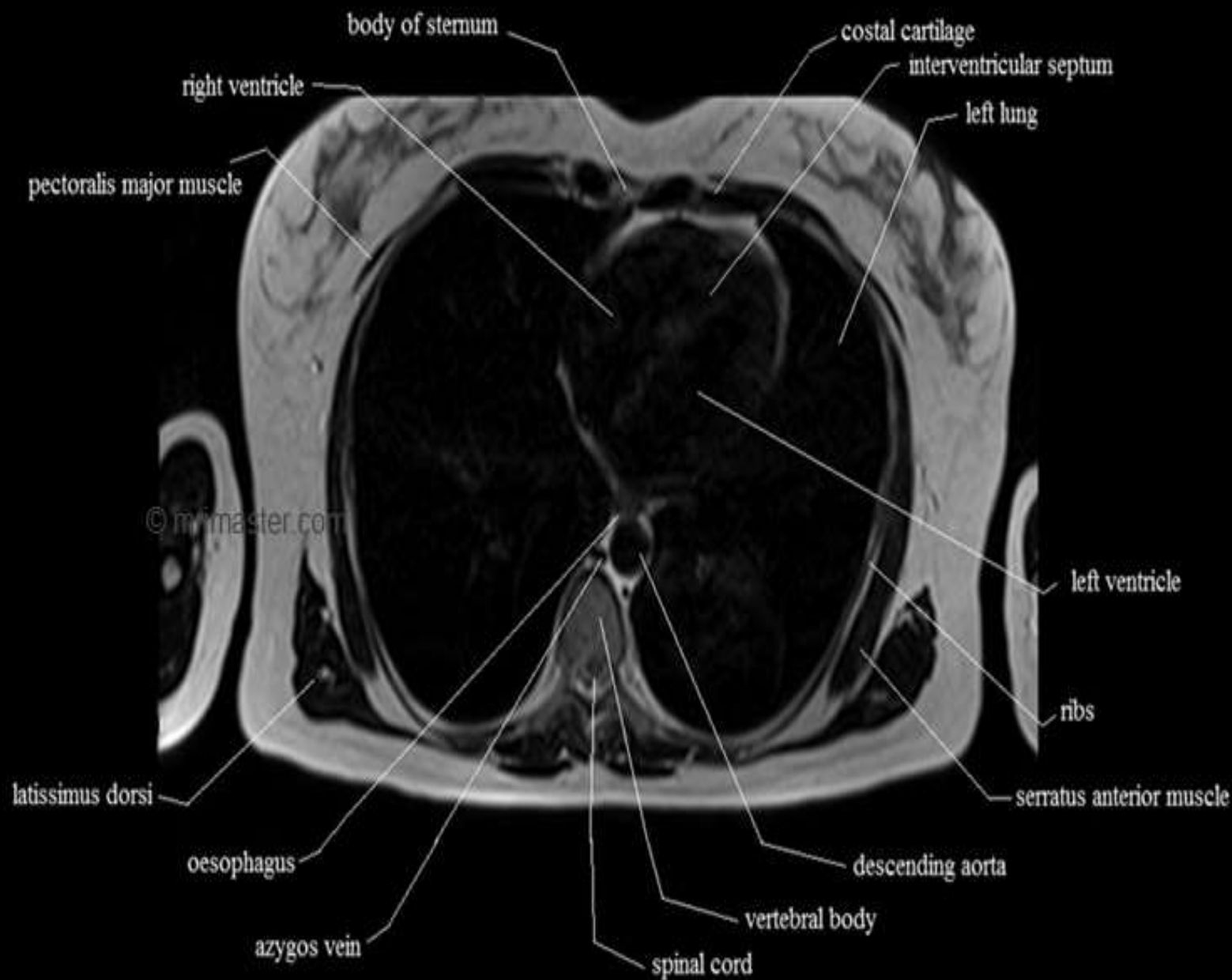
2-oesophagus

5-right brachiocephalic artery

3-right brachiocephalic vein

7-left subclavian artery





1. Rt lung
2. Rt atrium
3. Rt ventricle
4. Lt ventricle
5. Lt atrium
6. Lt lung
7. Aorta
8. T7 vert.



Thank you